

2. (Original) The method according to claim 1, further comprising the step of:
producing a report based on the log file.

3. (Previously Amended) The method according to claim 2, wherein the step of producing
the report includes:

identifying one or more of the stack traces that are associated with any of the one or more
tags marked; and
producing the report based on the identified one or more of the stack traces.

4. (Previously Amended) The method according to claim 2, wherein producing the report
includes:

identifying a last stack trace that is associated with one of the one or more marked tags; and
producing the report based on the identified last stack trace.

5. (Previously Amended) The method according to claim 1, wherein:
the tags indicate respective addresses of allocated objects; and
the one or more marked tags indicate one or more respective addresses of migrated objects.

6. (Currently Amended) A method for producing a diagnostic report for a program,
comprising the steps of:

accessing a log file comprising a list of stack traces and respective tags at associated points
during execution of the program and comprising one or more marked tags; and
producing the diagnostic report based on the log file.

7. (Previously Amended) The method according to claim 6, wherein the step of producing the report includes:

identifying one or more of the stack traces that are associated with any of the one or more marked tags; and
producing the report based on the identified one or more of the stack traces.

8. (Previously Amended) The method according to claim 6, wherein producing the report includes:

identifying a last stack trace that is associated with one of the one or more marked tags; and
producing the report based on the identified last stack trace.

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9. (Previously Amended) The method according to claim 6, wherein:
the tags indicate respective addresses of allocated objects; and
the one or more marked tags indicate one or more respective addresses of migrated objects.

10. (Previously Amended) A computer-readable medium bearing instructions for analyzing a program, said instructions being arranged to cause one or more processors upon execution thereby to perform the steps of:

logging a plurality of stack traces and respective tags in a log file at respective points during execution of the program; and
recording within the log file one or more of the tags as one or more marked tags.

11. (Original) The computer-readable medium according to claim 10, further bearing instructions for performing the step of:
producing a report based on the log file.

12. (Previously Amended) The computer-readable medium according to claim 11, wherein the step of producing the report includes:
identifying one or more of the stack traces that are associated with any of the one or more marked tags; and
producing the report based on the identified one or more of the stack traces.

13. (Previously Amended) The computer-readable medium according to claim 11, wherein producing the report includes:

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identifying a last stack trace that is associated with one of the one or more marked tags; and
producing the report based on the identified last stack trace.

14. (Previously Amended) The computer-readable medium according to claim 10, wherein:
the tags indicate respective addresses of allocated objects; and
the one or more marked tags indicate one or more respective addresses of migrated objects.

15. (Previously Amended) A computer-readable medium bearing instructions for producing a diagnostic report for a program, said instructions being arranged to cause one or more processors upon execution thereby to perform the steps of:

accessing a log file comprising a list of stack traces and respective tags at associated points during execution of the program and comprising one or more marked tags; and

producing the diagnostic report based on the log file.

16. (Previously Amended) The computer-readable medium according to claim 15, wherein the step of producing the report includes:

identifying one or more of the stack traces that are associated with any of the one or more marked tags; and

producing the report based on the identified one or more of the stack traces.

17. (Previously Amended) The computer-readable medium according to claim 15, wherein producing the report includes:

identifying a last stack trace that is associated with one of the one or more marked_tags; and

producing the report based on the identified last stack trace.

18. (Previously Amended) The computer-readable medium according to claim 15, wherein:

the tags indicate respective addresses of allocated objects; and

the one or more marked tags indicate one or more respective addresses of migrated objects.

19. (Previously Added) The method according to claim 4, wherein the step of producing the report includes:

processing the log file from the end backward until the beginning.

20. (Previously Added) The method according to claim 8, wherein the step of producing the report includes:

processing the log file from the end backward until the beginning.